

PETROVICH, P. I.; BORISEVICH, N.A.

Fluorescence spectra and quantum yields of certain coumarin derivatives. Izv. AN SSSR Ser. fiz. 27 no. 5:703-711. May 1963.  
(MIRA 1963)

, Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley i Institut fiziki Akademii nauk SSSR.  
(Coumarin-Spectra)  
(Quantum theory)

... IS V.I.O. ....; r.m. V.I.O., P.I.; ZAL SSMAKA, S.A.

Informed sources report that at various times, Dokl. AII RSS, L. n. 11:  
51-13314.  
(MI A 17:2)

1. Instiut fiziki AII RSS is the main research institute of the Soviet Academy of Sciences, located in Moscow. Director: Dr. V. V. Voevodin.  
(XAI, p. 13, sec. 1)

PETROVICH, P.I.

Mercury derivatives of some p-disubstituted benzenes and their  
reaction with nitric acid. Zhur. VKHO 5 no.1:106-107 '60.  
(MIRA 14:4)

1. Nauchno-issledovatel'skiy institut organiceskikh poluproduktov  
i krasiteley imeni K.Ye. Voroshilova.  
(Benzene) (Nitric acid) (Mercury organic compounds)

5(3)

AUTHOR: Petrovich, I. I.

Sov. Chem. Ind. 1977

TITLE: Synthesis of benzene, naphthalene and their mono-derivatives  
Marked with C<sup>14</sup> in the Ring (Benzene, naphthalene and  
monoprecursors) with methyl C<sup>14</sup> acetate,

PERIODICAL: Khimicheskaya promstvennost', No. 4, pp. 41-47, U.S.S.R.

ABSTRACT: Radioactive carbon isotopes have been used within the last years for studying the structure and the reaction mechanism of aromatic compounds (refs. 1-7). The method is based on C<sup>14</sup> reduction in this connection. The practical reduction of the C<sup>14</sup> acetate is mainly based on a reaction which is shortly called N<sup>14</sup>(n,p)C<sup>14</sup>. Larger quantities of C<sup>14</sup> are obtained in a nuclear reactor by neutron irradiation of a saturated ammonium nitrate solution. A survey of certain publications (at least 100) on benzene, toluene, benzyl alcohol, aniline, phenol, alkyl benzene, naphthalene, 1-naphthylamine, and 2-chloronaphthalene, marked with C<sup>14</sup> in the ring is given. These data are also interpreted.

Card 1/2

## Synthesis of Benzene, Naphthalene and Their Monoderivatives, Marked With C<sup>14</sup> in the Ring

S.V. 64-51-12-00-00-

In conclusion the publication data concerning the technique of application and determination of  $\text{C}^{14}$  are shortly dealt with and discussed in brief. There are 51 references, 26 of which are Soviet.

Card 2/2

5 (3)  
AUTHOR:

Petrovich, P. I.

SCV/72-2-12-12/2

TITLE:

On the Investigation of the Oxidative Nitration of Aromatic Compounds (K izucheniyu okislitel'nogo nitrovaniya aromaticheskikh soyedineniy). III. Oxidative Nitration of Acetoxymercuri-n-xylene (III. Okislitel'noye nitrovaniye atsetoksimerkuryln-xilola)

PERIODICAL:

Zhurnal obshchey khimii, 1957, Vol 23, Nr 7, p. 2187 - 2193  
(USSR)

ABSTRACT:

On treatment of *n*-xylene with 51% nitric acid at 28° in the presence of mercury nitrate the author found only minute quantities of the nitrophenol that, according to Titov (Ref 1) was to be expected (Ref 2). Nor were nitrophenols obtained in treatment of acetoxymercuri-*n*-xylene with 58% acid at 20, 40, and 50°. The temperature was found to be decisive for the reaction. It was possible to prepare dinitro-*n*-xylene, and later also the *n*-xylene by the oxidative nitration of acetoxymercuri-*n*-xylene at low temperature. 58% nitric acid (containing nitrogen oxides) with the latter compound at 2-4° gave dinitro-*n*-xylene in 23.8% yield, which corresponded to the *x,x*-dinitro-

Card 1/2

On the Investigation of the Oxidative Nitration of SCV-73-20-7-2  
Aromatic Compounds. III. Oxidative Nitration of  
Acetoxymercuri-n-xylene

-2-oxy-n-xylene described in publications (Ref 3). In a reaction mixture obtained under similar conditions, but heated to 20-25° for 16 hours the nitrophenols decomposed to form resinous products. A mixture of mercury nitrate, nitric acid of medium concentration and n-xylene, to which acetic acid and petroleum ether had been added to lower the freezing point of the n-xylene, yielded at 3-5° the above x,x-dinitro-2-oxy-n-xylene. This compound was proved identical with 3,5-dinitro-2-oxy-n-xylene by the synthesis of the latter through nitration of n-xlenol and 5-nitro-2-oxy-n-xylene. The process of formation, as regards the three intermediates possible has yet to be investigated. There are 9 references, 5 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley imeni K. Ye. Voroshilova (Scientific Research Institute for Organic Half-products and Dyes imeni K. Ye. Voroshilov)

SUBMITTED: July 2, 1958  
Card 2/2

AUTHOR: Petrovich, .I.

001240610014-21 6

TITLE: Study of the process of oxidation of benzene to 2,4-dinitrophenol (Izuchenie protsessov nitrovaniya benzene v 2,4-dinitrofenol)

PUBLISHER: Chernihiv trudadney khirii, .U.S., Vol 33III, Nr 2, pp 353-357 (USSR)

SUMMARY: The oxidizing-nitration of benzene at molar ratio, benzene with a mercury catalyst at two ratios of nitric acid to benzene: 5 : 1 and 13 : 1 is investigated here. In the quantity of nitric acid is increased, the output of 2,4-dinitrophenol rises. An unanticipated application of the oxidizing-nitrating mixture causes a considerable pollution of 2,4-dinitrophenol by a mercury compound which has been identified as mercury exalate. The removal of this compound leads to a lowering of the concentration of the catalyst in the solution. A molecular formula of 2,4-dinitrophenol with chlorine has been obtained with the reaction  $C_6H_5Cl + C_4H_6O_2N_2 + C_{13}H_8S \rightarrow C_6H_5Cl + C_4H_6O_2N_2 + C_{13}H_8S$ . Borod'kov, G.V. helped in the work.

1977-1978 - 1978-79

## Study of the Process of Polymerization of Propene to 1,4-Dipole, 111

The present study is limited by differences, both cultural and linguistic, between American, German, and Indian.

—LAWRENCE, MASS., MAY 2, 1891.

$\text{C}_2 + \text{H}_2 \rightarrow \text{CH}_2$

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2

ZHURAVLEV, V. A. - TEPLOV, P.K.

SECRET INFORMATION  
EXCLUDED FROM AUTOMATIC  
DOWNgrading

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"

ACCESSION NR: AT4042293

S/0000/63/003/000/0161/0170

AUTHOR: Veze, A. K., Livelaists, O. A., Petrovitch, R. A., Ulmanis, L. Ya

TITLE: The conductive layer in the travelling electromagnetic field of a one-way indicator

SOURCE: Soveshchaniye po teoreticheskoy i prikladnoy magnitnoy gidrodinamike. 3d. Riga, 1962. Voprosy magnitnoy hidrodinamiki (Problems in magnetic hydrodynamics) doklady soveshchaniya, v. 3. Riga, Izd-vo AN LatSSR, 1963, 161-170

TOPIC TAGS: electromagnetic field, inductance, one way inductor, travelling magnetic field, vector potential equation

ABSTRACT: The authors attempt a theoretical calculation of the electromagnetic forces acting on a conducting layer of infinite length. At a distance  $\delta$  from an infinitely long and infinitely wide one-way inductor of a travelling magnetic field, there is an infinitely long and infinitely wide conducting layer, which moves with respect to the inductor at a velocity of  $2\tau f(1 - s)$  (See Figure 1 of the Enclosure), where  $\tau$  is the polar division of the inductor,  $s$  is the slippage, and  $f$  is the frequency of the current supplying the inductor. The thickness of the conducting layer is  $b$ , the specific conductivity of layer II is  $\sigma$ , the

1/4  
Card

ACCESSION NR: AT4042293

conductance of regions I and III equals zero. The non-conducting layer beyond the conductor is considered unlimited for the purposes of this investigation. Vector-potential equations for various conditions are derived, with integration constants determined on the basis of the boundary conditions. The inductance components for all three regions are obtained, as well as the density of the inducing currents. The density equation for force is presented in dimensionless form and analyzed. In the second part of the paper, the authors make an experimental determination of the electromagnetic force, primarily for the purpose of verifying the derived theoretical expressions. A measurement was made of the force acting on a thin hollow aluminum cylinder, coaxially suspended in a unilateral cylindrical inductor. It was assumed that the induction distribution throughout the thickness of the cylinder wall differed only slightly from the planar case. The tangential component of the induction on the cylinder surface was measured as a function of frequency. The inductor was fed with three-phase AC current having frequencies ranging from 50 to 600 cps. Of greatest interest to the authors were the forces acting on a layer of finite length. In order to determine the effect of layer width, a series of tests were run using solid metal disks as the conducting layer. Good agreement was found to exist

Card 2/4

ACCESSION NR: AT4042293

between the theoretical and experimental results. Orig. art. has: 2 tables, 5 figures  
and 17 formulas.

ASSOCIATION: none

ENCL: 01

SUB CODE: EM

SUBMITTED: 04Dec63

OTHER: 000

NO RET Sov: 002

Card 3/4

ACCESSION NR: AT4042293

ENCLOSURE 11

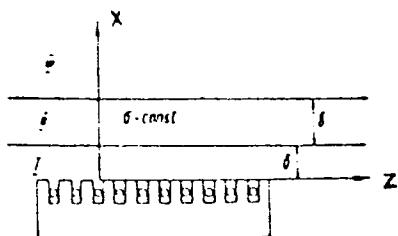


Fig. 1. Sketch for the theoretical calculation: I - region between inductor and conductor  
II - conducting layer; III - space beyond conducting layer

Card 4/4

PETROVICH, S., starshiy nauchnyy sotrudnik  
Chufa. Nauka i pered.op. v sel'khoz. g no.11:40 N '58.  
(MIRA 11:12)  
(Chufa)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2

PATRIOTIC, S. and MIDWY, J.

"AMERICAN SECURITY & ITS SPY"

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"

PETROVICH, S.; DIVOV, D.

[Atomic energy and its application] Atomnaya energiya i ee  
primenenie. Moskva, Voenizdat, 1954. 107 p. (MIRA 8:1)

January 10th, 3.

19. *Phragmites australis* (L.) Trin., *Bot. Nederl.*

“*It is a good thing to have a good name, to be called by a good name.*”

"The first time I saw him, he was

Inclusion of the following terms in the contract will help to ensure that the client, contractor, architect, engineer, designer, and other professionals involved in the project are fully informed about their responsibilities and obligations:

28 *Journal of Health Politics*

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2

-1 A

CA

Table of atomic nuclei. B. S. Dezhikov and S. Petrovich. Izdatelstvo fiz.-mat. literatury 40, 497-591 (1969). Critical compilation of numerical data with literature sources. N. I. Thom.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"

TSOY, S.; PETROVICH, S.I.

Optimum regulation of air consumption in mine ventilation  
systems. Vest. AN Kazakh. SSR 21 no.1:45-50 Ja '65.

(MIRA 18:7)

PETROVICH, S.I.

Use of some protein-rich plants in fish. Moscow. Biol. Sist. 1981,  
no.50:88-91. 163.

I. Botanicheskiy s.-imej L.M. Lzo-Polyana k.-po Vsesoyuznogo nauchno-tekhnicheskogo  
vennogo universiteta.

"APPROVED FOR RELEASE: 06/15/2000

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APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"

PSTR: V. B., C.I.; R. V., -.

Comparative evaluation of electric modeling devices for calculating ventilation systems. Trudy Inst. gen. dela Ak. Nauk SSSR. 1960. 16(1).

Calculating ventilation systems on an electric modeling device.  
Ibid.:56-63 (VNIKA 1P:1)

PETROVICH, S.L.

Phage typing of staphylococci in food poisoning. Vop. pit.  
20 no. 6:74-75 N-D '61. (MIRA 15:6)

1. Iz Gorodskoy sanitarno-epidemiologicheskoy stantsii,  
Moskva.  
(FOOD POISONING) (STAPHYLOCOCCAL DISEASE)  
(BACTERIOPHAGE)

NEFED'YEVA, N.P.; PETROWICH, S.L.; PETRUSHIN, L.I.

Phage pattern of staphylococci isolated during the regular inspection  
of confectionary factories and in connection with food poisoning.  
Vop.pit. 20 no.3:51-55 My-Je '61. (MIRA 14:6)

1. Iz mikrobiologicheskoy laboratorii (zav. - Yu. I. Rubinshteyn)  
Instituta pitaniya AMN SSSR.  
(STAPHYLOCOCCUS) (BACTERIOPHAGE)  
(FOOD POISONING)

100/Mirrored copy, militant groups, etc., in the area.  
Also in the same area.

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100/Mirrored copy, militant groups, etc., in the area.  
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AID P - 3902

Subject : USSR/Medicine

Card 1/2 Pub. 37 - 6/21

Authors : Shustova, L. N. and S. L. Petrovich

Title : Methods of sanitary and bacteriological investigations  
of drinking water

Periodical : Gig. i. san., 12, 23-26, D 1955

Abstract : Discusses the All-Union State Standard for specifications of quality of drinking water, issued May 1, 1954. This GOST 2874-54 is considerably changed when compared with the preceding GOST 2874-45, but presents the same methods of bacteriological water analysis as GOST 5216-50, four years its senior. The author recommends reviewing the standard methods of water analysis taking into consideration modern scientific literature and practical observations.

PETROVICH, S.L.

RT-120 (Use of method of membrane filters for investigation of water from ground wells).  
Primenenie metoda membrannykh fil'trov k issledovaniyu vody gruntovykh kolodtsev.  
Gigiena i Sanitarija, 17(6): 19-22, 1952.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2

RECENT LIST OF RUSSIAN AEROSPACE, MILITARY, AND POLITICAL LEADERS

RECENT LIST OF RUSSIAN AEROSPACE, MILITARY, AND POLITICAL LEADERS

Recently List of Russian Aerospace, Military, and Political Leaders, 1991

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"

PETROVICH, S.L.; SHUSTOVA, L.M.

Microflora of water + lens. Bi. sanit., Moskva no.3:41-4 Mar 1971.  
(CLML 10)

1. Of the Laboratory of the Sanitary Epidemiological Station,  
Moscow.

SHUSTOVA, L.N.; PETROVICH, S.L.

Methods in the bacteriological analysis of drinking water for  
sanitation purposes. Gig. i san. no.12:23-26 D '55 (MLRA 9:4)

1. Iz Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.  
(WATER  
drinking water, bacteriol. research methods)

PUNI, A.TS.; PETROVICH, V.V.

Process of the concentration of attention in the individual preparation of athletes for the performance of exercises in competitions. Vop. psichol. 11 no.2x101-116. Mr.-Ap '65.  
(MIRA 1965)

1. Institut fizicheskoy kultury imeni Laspata, Lenigrad.

PETROVICH, V.K.

Correlation of the bioelectrical activity of the cerebral cortex  
in sportsmen following revivification of the dynamic stereotype.  
Zhur. vys. nerv. deiat. 15 no.5:846-851 S-0 '65.

(MIR 18:11)

1. Gosudarstvennyy institut fizicheskoy kul'tury im. P.F. Lesgafta,  
Leningrad.

PETROVSKI, Stevan; DJORDJEVIC, Jovan; PEJAKOVIC, Samuilo

Isonicotinic acid hydrazide poisoning in a child and under  
experimental conditions. Tuberkuloza 15 no.1:85-88 Ja-Mr '63.

1. Pedijatrica klinika Medicinskog fakulteta, Beograd -  
Upravnik: prof. dr B. Tasovac Specijalna decja bolnica za  
tuberkulozu i bolesti pluca "Dedinje", Beograd - Upravnik:  
dr J. Djordjevic Institut za studsku medicinu Medicinskog  
fakulteta, Beograd - Upravnik: prof. dr J. Bogicevic.  
(TUBERCULOSIS IN CHILDHOOD)  
(ISONIAZID TOXICOLOGY)

2

ZUBKOV, A.I., otv. red.; PETROVSKAYA, T.I., red.; KISELEVA, L.I.,  
tekhn. red.

[The northwest of the European U.S.S.R.; its nature and  
economy] Severo-Zapad evropeiskoi chasti SSSR; priroda i  
khoziaistvo. Leningrad, Izd-vo Leningr. univ., 1963. 142 p.  
(MIRA 17:3)

i. Leningrad. Universitet.

BUCHNEV, V.K., prof., doktor tekhn. nauk; KALININ, R.A., dotsent; KORABLEV, A.A., kand. tekhn. nauk; MONIN, G.I., inzh.; BELYAYEV, V.S., kand. tekhn. nauk; MERKULOV, V.Ye., inzh.; ALEKSEYENKO, V.D., inzh.; IL'SHTEYN, A.M., kand. tekhn. nauk; GELESKUL, M.N., kand. tekhn. nauk; KOBISHCHANOV, M.A., kand. tekhn. nauk; DOBROVOL'SKIY, V.V., kand. tekhn. nauk; MALYSHEV, A.G., inzh.; VOROPAYEV, A.F., prof., doktor tekhn. nauk; LIDIN, G.D., prof., doktor tekhn. nauk; TOPCHIYEV, A.V., prof.; VEDERNIKOV, V.I., kand. tekhn. nauk; KUZ'MICH, I.A., kand. tekhn. nauk; LEYTES, Z.M., inzh.; SYSCYEVA, V.A., kand. tekhn. nauk; MELAMED, Z.M., kand. tekhn. nauk; CHERNAVSKIN, N.N., inzh.; KARPILOVICH, M.Sh., inzh.; MEL'KIMOV, L.G., inzh.; BOGOPOL'SKIY, B.Kh., inzh.; FRULOV, A.G., doktor tekhn. nauk; KHVOSTOV, F.K., inzh.; BAGASHEV, M.K., kand. tekhn. nauk; KAMINSKIY, I.N., inzh.; PETROVICH, T.I., inzh.; ZHUKOV, V.V., red. izd-va; LON'ILINA, L.N., tekhn. red.; PROZHOVSKAYA, V.L., tekhn. red.

[Mining engineers' handbook] Spravochnik gornogo inzhenera.  
Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1960.

(MIRA 14:1)

(Mining engineering—Handbooks, manuals, etc.)

A-4

Category : YUGOSLAVIA/General Problems - Method and Technique of  
Investigation

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 120

Author : Petrovich, Vladimir B.  
Title : Concerning the Introduction of the Giorgi System

Orig Pub : Zb. Elektrotekhn fak Un-t Beogradu, 1954-1955,  
Beograd, 1955, 39-45

Abstract : Discussion of the causes of the difficulties inherent in a changeover to the Giorgi system. The author considers the principal difficulty to be the problem of the choice of the sequence with which one introduces the concepts, a difficulty that stumps even the writers of textbooks. The author brings forth certain additional premises concerning the teaching process. The basic problems were considered by the author earlier. (Zb. Elektrotekhn. fak. Un-t Beogradu, 1952-1953, 25-40), where he suggested a new rationalized way of teaching, to replace the non-rationalized classical way. This new method of teaching is considered as a necessary premise for the introduction of the Giorgi system. The author recommends that a rationalized instruction in the laws of the flux of electric induction and the laws

( Card : 1/2

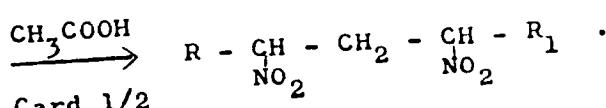
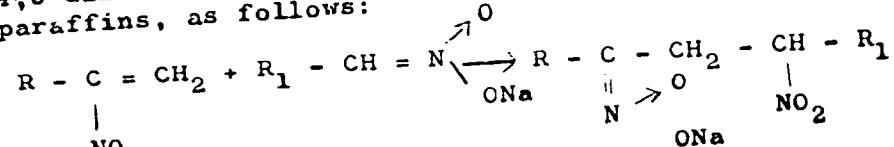
S/153/62/005/006/007/015  
E075/E536

AUTHORS: Tsybasov, V.P. and Petrovich, V.F.  
TITLE: The synthesis of dinitro-compounds from nitro-  
olefins and nitroparaffins

TITLE: olefins and nitroparaffins  
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Khimiya i  
khimicheskaya tekhnologiya, v. 5, no. 6, 1962,  
942 - 944

942 - 944

TEXT: New dinitro compounds (2,4-dinitrohexane, 2,4-dinitroheptane, 3,5-dinitrooctane, 3,5-dinitroheptane, 4,6-dinitrononane) were synthetized from  $\alpha$ -nitroolefins and nitro-paraffins, as follows:



Card 1/2

S/153/62/005/006/007/015  
E075/E336

The synthesis of ....

A series of homologous 2-nitro-1-en-olefins was prepared by the Buckley and Scaife method (J. Chem. Soc., 1471, 1947), i.e. dehydration of the corresponding nitro-alcohols with phthalic anhydride. The yields of the dinitro compounds ranged from 30 to 50%. There are 2 tables.

ASSOCIATION: Kafedra obshchey khimii, Leningradskiy mekhanicheskiy institut (Department of General Chemistry, Leningrad Mechanical Institute)

SUBMITTED: July 20, 1961

Card 2/2

TSYBASOV, V.P.; PUDOVICH, V.F.; DVORAKOVSKAYA, A.A., tekhn. red.

[Plastics, their production, properties, and uses] Plastiche-  
skie massy, ikh poluchenie, svoistva i primenie; uchebnoe po-  
sobie. Leningrad, Leningr. mekh. in-t, 1961. 100 .  
(MIRA 15:12)

(Plastics)

24 (8)  
AUTHOR:

Petrovichov, M. V.

SOV/89-7-4-8/28

TITLE:

The Heat Emission of Mercury Flowing in Annular Channels

PERIODICAL:

Atomnaya energiya, 1959, Vol 7, Nr 4, pp 366-369 (USSR)

ABSTRACT:

First, the lack of agreement between the formulas hitherto used for calculating this heat transfer is pointed out. This disagreement is also the reason why this paper was written. The heat transfer of mercury in the case of a turbulent flow in channels with annular cross section was investigated by means of two different experimental devices. First, one of the devices is shown by a figure. The experimental range of 800 mm length consisted of three steel tubes of the EYa1T type, which were arranged within one another. Within the interior annular interspace mercury flowed from bottom to top; in the outer diameter and in the inner tube cooling water flowed from top to bottom. In each experiment the water equivalents were equal with respect to mercury and water. The temperature of the water, the mercury, and of the walls of the annular interspace was measured by means of thermocouples. Also the scheme of device Nr 2 is shown by a figure. The experimental range consists of a tube 600 mm long, which is

Card 1/4

The Heat  
Channels

Emission of Mercury Flowing in Annular

SOV/89-7-4-8/28

made from steel of the EYalT type and has an exterior diameter of 17.5 mm and an inner diameter of 13.5 mm. All experiments were carried out at a mercury temperature of from 30 to 50°C and at velocities of from 0.3 to 2.25 m/sec. The dimensionless similarity criteria calculated from the hydraulic equivalent diameter varied in the course of the experiments within the following limits: In device Nr 1:  $Re = 27 \cdot 10^3$  to  $200 \cdot 10^3$ ,  $Pe = 670$  to  $4900$ . In device Nr 2:  $Re = 15 \cdot 10^3$  to  $75 \cdot 10^3$ ,  $Pe = 500$  to  $1800$ . Two diagrams show the results of measurements of the heat transfer of mercury in its flow in the annular channels. These results were represented in form of the generally used dependence  $Nu = f(Re)$ . From these diagrams the following follows: (1) The experimental data on various equivalent diameters  $d_{eq}$  can, if the problem is dealt with in this manner, not be expressed by one single dependence. Therefore, also calculation of heat transfer in a turbulent flow of liquid metals in annular channels according to the formulas for circular tubes cannot give an accurate result.

Card 2/4

The Heat Emission of Mercury Flowing in Annular  
Channels

SOV/89-7-4-8/28

SUBMITTED: May 25, 1959

Card 4/4

"APPROVED FOR RELEASE: 06/15/2000

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RECORDED BY  
[REDACTED] SIGHTING  
[REDACTED]

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APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"

SMIRNOV, V.G.; PETROVICHEVA, V.M.

Possibility and expediency of drilling vertical holes with  
water flushing. Nauchno-trudy NII Podzemgaza no. 9:74-80 '63.  
(MIRA 16:11)

1. Laboratoriya napravленного бурения Всесоюзного научно-  
исследовательского института подземной газификации угля.

PETROVICH, Ya.; KASHNIKOV, F.

Fellow-workers' courts attached to apartment house offices.  
Zhil.-kom.khoz. 9 no.11:10-11 '59. (MIRA 13:2)

1. Predsedatel' tovarishcheskogo suda pri domupravlenii  
No.8/13, g.Angarsk, Irkutskaya oblast'.  
(Labor courts)

L 34834-66 EWT(m) EWP(t)/ETI IJF(c) JD/JG

ACC NR: AP6014021

SOURCE CODE: UR/0056/66/050/004/0861/0870

AUTHOR: Sumbayev, O. I.; Mezentsev, A. F.; Marushenko, V. I.; Petrovich, Ye. V.; Rylin'nikov, A. S.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR (Fiziko-tehnicheskiy institut AN SSSR)

TITLE: Chemical shift due to screening of the inner levels of heavy elements

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 4, 1966, 861-870

TOPIC TAGS: heavy element, inner level, screening, chemical bonding, atomic structure, atomic property, tin, molybdenum, tungsten

ABSTRACT: Chemical shifts of the  $K_{\alpha_1}$  x-ray lines of Mo-MoO<sub>3</sub>, Sn-SnO<sub>2</sub>, and W-WO<sub>3</sub> were measured by a method based on alternately introducing the compared sources into the field of vision of the Cochonis diffraction spectrometer with compensated aperture aberrations. The  $E(K_{\alpha_1})$  energy differences for the metal and oxide are respectively  $+192 \pm 7$ ,  $-152 \pm 5$ , and  $+110 \pm 33$  Mev. Thus, the results previously obtained by the authors (O. I. Sumbayev, A. F. Mezentsev, ZhETF, 48, 445, 1965) for Sn-SnO<sub>2</sub> now have been confirmed by an improved experimental arrangement. It is shown that despite the usually accepted viewpoint (A. Sandstrom, Handb. der Phys., 30, 158, 1957), the inner (K, L) atomic level shifts, due to the formation of chemical bonds, are appreciable, including the heaviest elements. Moreover, their absolute value remains approximately

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L 34834-66

ACC NR: AP6014024

constant with a growing Z. This conclusion agrees with the theoretical estimates made by the authors on the assumption that the chemical effects observed are due to internal screening (S. M. Karal'nik, Izv. AN SSSR, ser. fizich., 20, 815, 1956; S. M. Karal'nik, Izv. AN SSSR, ser. fizich., 21, 1445, 1957). It was mentioned that the effect may be used for investigating the nature of the chemical bond as was done previously in the case of light elements. The authors thank Professor D. M. Kaminker for his interest in this work and discussions of the results and V. S. Zykova and Yu. P. Smirnova for carrying out measurements. Orig. art. has: 2 figures [NT] 4 formulas, and 5 tables. [Based on authors' abstract.]

SUB CODE: 20, 11/ SUBM DATE: 27Oct65/ ORIG REF: 007/ OTH REF: 012

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L 11958-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(a)  
ACC NR: AP5026587

SOURCE CODE: UR/0056/65/049/004/1019/1021

AUTHORS: Zykov, V. S., <sup>44,55</sup> Petrovich, Ye. V., <sup>44,55</sup> Smirnov, Yu. P. <sup>44,55</sup>

<sup>63</sup>  
<sup>54</sup>  
<sup>B</sup>

ORG: Physicotechnical Institute im. A. F. Ioffe; Academy of Sciences,  
SSSR (Fiziko-tehnicheskiy institut Akademii nauk SSSR)

TITLE: Influence of stoichiometry on the Mossbauer effect in tin  
dioxide <sup>21,44,55</sup> <sup>55,27</sup>

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no.  
4, 1965, 1019-1021

TOPIC TAGS: Mossbauer effect, tin compound, line broadening, absorption  
line, stoichiometry

ABSTRACT: A hypothesis is advanced that one of the causes of the observed broadening of the Mossbauer absorption line in  $\text{SnO}_2$  is violation of the exact stoichiometric composition in the samples prepared in the usual manner. To check on this hypothesis, the authors compared the resonance-absorption spectra for two  $\text{SnO}_2$  samples of different stoichiometric compositions. One of the absorbers was prepared from tin dioxide produced by dissolving metallic tin in  $\text{HNO}_3$  with subsequent evaporation.

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Card 2/2

PETROVICH, V.I.A.

Bromine supply to tissues with disturbed innervation. Dokl. Nauk.  
163 no.2:533-536. II '65. p. 18.2

I. Ukrainskiy nauchno-issledovatel'skiy institut stomatologii,  
Odessa. Submitted August 22, 1964.

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Petrovich, Yu. A.

Biochemical changes in burned and fluids of the eye in nervous system injuries. I. Magnitude of respiration. T. P. Shestikova and Yu. A. Petrukhin [Sci. Research. Psychoneuropl. Inst. Odessa]. *Zhurn. f. biokhimiia*, 26, 166-73 (1951).—Expts. were performed on 45 rabbits divided into 3 groups: (1) control (normal rabbits); (2) intracranial cutting of the trigeminal nerve; (3) extirpation of the superior cervical sympathetic ganglion. The intracranial injury of the trigeminal nerve leads to the development of ocular dystrophy and a lowering in the respiration of the eye tissues on the uninjured as well as on the injured side. The lowering in the O<sub>2</sub>s of the cornea of both eyes is observed 3 min. after the onset of the injury and persists for 4 days. A lowering in the respiration of the iris of both eyes is manifested throughout the entire period of experimental interference. The lowering of the O<sub>2</sub>s of the iris of both eyes is noted more during the first few hrs. following the operation. It is not feasible, therefore, to have the eye on the nonoperated side serve as a control. After the extirpation as in (3) respiration of the cornea of both eyes is unaltered. The O<sub>2</sub>s of the iris of the normal eye only noticeably increased. Conclusions.—The lowered respiration characteristic of some neurotropic injury cannot be primarily related to disturbances in the sympathetic innervation from the superior cervical ganglion. B. S. Levine

B. S. Taylor

1954. Biochemical changes in tissues and fluids of eye with  
traumas of the nervous system. II. Concentration of ascorbic acid  
and protein. Yu. O. Petrovich. *Ukrain. biullet.* 22, 1954, No.  
437-438. *Roznosh. ZN. Biol.* Kishinev, 1956. Abstr. No. 12375-  
Changes in the content of ascorbic acid and protein were investigated  
in the cornea, the aqueous humour and the vitreous body of  
the rabbit's eye on transection of the trigeminal nerve and the  
extirpation of the dorsal cervical sympathetic ganglion. After  
intercranial section of the trigeminal nerve there is a sharp decrease  
in the content of ascorbic acid in the aqueous humour and cornea  
of the operated eye and in the first minute after operation there is  
already a significant increase in the protein content of the aqueous  
humour, while the max. value of this increase is reached several  
days after the operation (to tens or hundreds of times the value in  
control animals). The increased conc. of protein were observed  
not only in the operated eye, but also in the humour of the uninjured  
eye. After removal of the dorsal cervical sympathetic ganglion the  
content of protein in the aqueous humour also increases, but this  
is significantly less pronounced than after section of the trigeminal  
nerve. Changes in the content of ascorbic acid and protein were  
insignificant in the vitreous body after the operations described  
above. *Fiz. Kommunikacii* 1, set. 24. Biol. Akad. 1953. Abstr. No.  
9217. (Ukrainian)

J. HARDING

Odessa Sci. Res. Psychoneurology Inst.

Petrovich, Yu. A.

USSR/Medicine - Physiology

Card : 1/1

Authors : Shesterikova, T. P., and Petrovich, Yu. A.

Title : Change in the kidney functions during disturbance of the natural light process

Periodical : Dokl. AN SSSR, 96, Ed. 4, 873 - 876, June 1954

Abstract : Experimental data show, that a continuous disturbance of the natural light process affects the functional state of the kidneys and that the larger hemispheres of the brain are affected. Twelve references. Table, graphs.

Institution : The Scientific-Research Psychoneurological Institute, Odessa, Ukr-SSR

Presented by : Academician A. I. Abrikosov, April 2, 1954

PETROVICH, Yu. A.

Mineral composition of blood and urine of animals kept  
in the dark for prolonged period. Yu. A. Petrovich (Psy-  
choneurosis Inst., Odessa). *Vys. Zdrav. Nauk. T. Med. 40*,  
No. 11, 33-4 (1955). Expts. with rabbits and dog. kept  
in the dark for 21 days showed that darkness reduces  
urinary Cl, increases diuresis, and decreases the fluctuation  
of Cl in the blood. G. M. Kosolapoff

Petrovich, Yu. A.

Application of radioactive isotopes to the study of secretion of phosphorus and iodine by salivary glands in conditioned and unconditioned secretion. Yu. A. Petrovich (Psychoneurological Sci. Research Inst. Odessa) *Zh. Psychoneurofiziol.* 1967, No. 1, p. 111; *Sov. Med. Nauch.-Tekhn. K.* 1967, No. 5 (1967). In experiments with dogs given  $\text{Na}_3\text{HP}^{32}\text{O}_4$  and  $\text{NaI}^{131}$  it was shown that active P secretion is lower by a factor of 1.5-7 for conditioned salivation than for unconditioned salivation. The secretory rate of active I, however, is 1.2-3 times greater under conditioned secretion than in unconditioned secretion. The possible physiol. reasons for this behavior are discussed.  
G. M. Kosobudin

PETROVICH, Ya.A.

Potassium and sodium content in an intact and a denervated  
eye. Dokl. AN SSSR 165 no.2:447-450 N '65. (MIKA 18:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut stomatologii,  
Odessa. Submitted January 5, 1965.

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PETROVICH, Yu.A. (Odessa); SAPOGOVSKAYA, T.I. (Odessa), KONOVENTS, V.M.  
(Odessa); PODOROZHNAIA, R.P. (Odessa); TRIFONOVA, V.P. (Odessa)

Entry of labeled atoms into the tissues of the teeth and the  
paradentium. Probl. stom. 08.3x-13<sup>14</sup><sup>15</sup><sup>16</sup><sup>17</sup><sup>18</sup><sup>19</sup><sup>20</sup><sup>21</sup><sup>22</sup><sup>23</sup><sup>24</sup><sup>25</sup><sup>26</sup><sup>27</sup><sup>28</sup><sup>29</sup><sup>30</sup><sup>31</sup><sup>32</sup><sup>33</sup><sup>34</sup><sup>35</sup><sup>36</sup><sup>37</sup><sup>38</sup><sup>39</sup><sup>40</sup><sup>41</sup><sup>42</sup><sup>43</sup><sup>44</sup><sup>45</sup><sup>46</sup><sup>47</sup><sup>48</sup><sup>49</sup><sup>50</sup><sup>51</sup><sup>52</sup><sup>53</sup><sup>54</sup><sup>55</sup><sup>56</sup><sup>57</sup><sup>58</sup><sup>59</sup><sup>60</sup><sup>61</sup><sup>62</sup><sup>63</sup><sup>64</sup><sup>65</sup><sup>66</sup><sup>67</sup><sup>68</sup><sup>69</sup><sup>70</sup><sup>71</sup><sup>72</sup><sup>73</sup><sup>74</sup><sup>75</sup><sup>76</sup><sup>77</sup><sup>78</sup><sup>79</sup><sup>80</sup><sup>81</sup><sup>82</sup><sup>83</sup><sup>84</sup><sup>85</sup><sup>86</sup><sup>87</sup><sup>88</sup><sup>89</sup><sup>90</sup><sup>91</sup><sup>92</sup><sup>93</sup><sup>94</sup><sup>95</sup><sup>96</sup><sup>97</sup><sup>98</sup><sup>99</sup><sup>100</sup><sup>101</sup><sup>102</sup><sup>103</sup><sup>104</sup><sup>105</sup><sup>106</sup><sup>107</sup><sup>108</sup><sup>109</sup><sup>110</sup><sup>111</sup><sup>112</sup><sup>113</sup><sup>114</sup><sup>115</sup><sup>116</sup><sup>117</sup><sup>118</sup><sup>119</sup><sup>120</sup><sup>121</sup><sup>122</sup><sup>123</sup><sup>124</sup><sup>125</sup><sup>126</sup><sup>127</sup><sup>128</sup><sup>129</sup><sup>130</sup><sup>131</sup><sup>132</sup><sup>133</sup><sup>134</sup><sup>135</sup><sup>136</sup><sup>137</sup><sup>138</sup><sup>139</sup><sup>140</sup><sup>141</sup><sup>142</sup><sup>143</sup><sup>144</sup><sup>145</sup><sup>146</sup><sup>147</sup><sup>148</sup><sup>149</sup><sup>150</sup><sup>151</sup><sup>152</sup><sup>153</sup><sup>154</sup><sup>155</sup><sup>156</sup><sup>157</sup><sup>158</sup><sup>159</sup><sup>160</sup><sup>161</sup><sup>162</sup><sup>163</sup><sup>164</sup><sup>165</sup><sup>166</sup><sup>167</sup><sup>168</sup><sup>169</sup><sup>170</sup><sup>171</sup><sup>172</sup><sup>173</sup><sup>174</sup><sup>175</sup><sup>176</sup><sup>177</sup><sup>178</sup><sup>179</sup><sup>180</sup><sup>181</sup><sup>182</sup><sup>183</sup><sup>184</sup><sup>185</sup><sup>186</sup><sup>187</sup><sup>188</sup><sup>189</sup><sup>190</sup><sup>191</sup><sup>192</sup><sup>193</sup><sup>194</sup><sup>195</sup><sup>196</sup><sup>197</sup><sup>198</sup><sup>199</sup><sup>200</sup><sup>201</sup><sup>202</sup><sup>203</sup><sup>204</sup><sup>205</sup><sup>206</sup><sup>207</sup><sup>208</sup><sup>209</sup><sup>210</sup><sup>211</sup><sup>212</sup><sup>213</sup><sup>214</sup><sup>215</sup><sup>216</sup><sup>217</sup><sup>218</sup><sup>219</sup><sup>220</sup><sup>221</sup><sup>222</sup><sup>223</sup><sup>224</sup><sup>225</sup><sup>226</sup><sup>227</sup><sup>228</sup><sup>229</sup><sup>230</sup><sup>231</sup><sup>232</sup><sup>233</sup><sup>234</sup><sup>235</sup><sup>236</sup><sup>237</sup><sup>238</sup><sup>239</sup><sup>240</sup><sup>241</sup><sup>242</sup><sup>243</sup><sup>244</sup><sup>245</sup><sup>246</sup><sup>247</sup><sup>248</sup><sup>249</sup><sup>250</sup><sup>251</sup><sup>252</sup><sup>253</sup><sup>254</sup><sup>255</sup><sup>256</sup><sup>257</sup><sup>258</sup><sup>259</sup><sup>260</sup><sup>261</sup><sup>262</sup><sup>263</sup><sup>264</sup><sup>265</sup><sup>266</sup><sup>267</sup><sup>268</sup><sup>269</sup><sup>270</sup><sup>271</sup><sup>272</sup><sup>273</sup><sup>274</sup><sup>275</sup><sup>276</sup><sup>277</sup><sup>278</sup><sup>279</sup><sup>280</sup><sup>281</sup><sup>282</sup><sup>283</sup><sup>284</sup><sup>285</sup><sup>286</sup><sup>287</sup><sup>288</sup><sup>289</sup><sup>290</sup><sup>291</sup><sup>292</sup><sup>293</sup><sup>294</sup><sup>295</sup><sup>296</sup><sup>297</sup><sup>298</sup><sup>299</sup><sup>300</sup><sup>301</sup><sup>302</sup><sup>303</sup><sup>304</sup><sup>305</sup><sup>306</sup><sup>307</sup><sup>308</sup><sup>309</sup><sup>310</sup><sup>311</sup><sup>312</sup><sup>313</sup><sup>314</sup><sup>315</sup><sup>316</sup><sup>317</sup><sup>318</sup><sup>319</sup><sup>320</sup><sup>321</sup><sup>322</sup><sup>323</sup><sup>324</sup><sup>325</sup><sup>326</sup><sup>327</sup><sup>328</sup><sup>329</sup><sup>330</sup><sup>331</sup><sup>332</sup><sup>333</sup><sup>334</sup><sup>335</sup><sup>336</sup><sup>337</sup><sup>338</sup><sup>339</sup><sup>340</sup><sup>341</sup><sup>342</sup><sup>343</sup><sup>344</sup><sup>345</sup><sup>346</sup><sup>347</sup><sup>348</sup><sup>349</sup><sup>350</sup><sup>351</sup><sup>352</sup><sup>353</sup><sup>354</sup><sup>355</sup><sup>356</sup><sup>357</sup><sup>358</sup><sup>359</sup><sup>360</sup><sup>361</sup><sup>362</sup><sup>363</sup><sup>364</sup><sup>365</sup><sup>366</sup><sup>367</sup><sup>368</sup><sup>369</sup><sup>370</sup><sup>371</sup><sup>372</sup><sup>373</sup><sup>374</sup><sup>375</sup><sup>376</sup><sup>377</sup><sup>378</sup><sup>379</sup><sup>380</sup><sup>381</sup><sup>382</sup><sup>383</sup><sup>384</sup><sup>385</sup><sup>386</sup><sup>387</sup><sup>388</sup><sup>389</sup><sup>390</sup><sup>391</sup><sup>392</sup><sup>393</sup><sup>394</sup><sup>395</sup><sup>396</sup><sup>397</sup><sup>398</sup><sup>399</sup><sup>400</sup><sup>401</sup><sup>402</sup><sup>403</sup><sup>404</sup><sup>405</sup><sup>406</sup><sup>407</sup><sup>408</sup><sup>409</sup><sup>410</sup><sup>411</sup><sup>412</sup><sup>413</sup><sup>414</sup><sup>415</sup><sup>416</sup><sup>417</sup><sup>418</sup><sup>419</sup><sup>420</sup><sup>421</sup><sup>422</sup><sup>423</sup><sup>424</sup><sup>425</sup><sup>426</sup><sup>427</sup><sup>428</sup><sup>429</sup><sup>430</sup><sup>431</sup><sup>432</sup><sup>433</sup><sup>434</sup><sup>435</sup><sup>436</sup><sup>437</sup><sup>438</sup><sup>439</sup><sup>440</sup><sup>441</sup><sup>442</sup><sup>443</sup><sup>444</sup><sup>445</sup><sup>446</sup><sup>447</sup><sup>448</sup><sup>449</sup><sup>450</sup><sup>451</sup><sup>452</sup><sup>453</sup><sup>454</sup><sup>455</sup><sup>456</sup><sup>457</sup><sup>458</sup><sup>459</sup><sup>460</sup><sup>461</sup><sup>462</sup><sup>463</sup><sup>464</sup><sup>465</sup><sup>466</sup><sup>467</sup><sup>468</sup><sup>469</sup><sup>470</sup><sup>471</sup><sup>472</sup><sup>473</sup><sup>474</sup><sup>475</sup><sup>476</sup><sup>477</sup><sup>478</sup><sup>479</sup><sup>480</sup><sup>481</sup><sup>482</sup><sup>483</sup><sup>484</sup><sup>485</sup><sup>486</sup><sup>487</sup><sup>488</sup><sup>489</sup><sup>490</sup><sup>491</sup><sup>492</sup><sup>493</sup><sup>494</sup><sup>495</sup><sup>496</sup><sup>497</sup><sup>498</sup><sup>499</sup><sup>500</sup><sup>501</sup><sup>502</sup><sup>503</sup><sup>504</sup><sup>505</sup><sup>506</sup><sup>507</sup><sup>508</sup><sup>509</sup><sup>510</sup><sup>511</sup><sup>512</sup><sup>513</sup><sup>514</sup><sup>515</sup><sup>516</sup><sup>517</sup><sup>518</sup><sup>519</sup><sup>520</sup><sup>521</sup><sup>522</sup><sup>523</sup><sup>524</sup><sup>525</sup><sup>526</sup><sup>527</sup><sup>528</sup><sup>529</sup><sup>530</sup><sup>531</sup><sup>532</sup><sup>533</sup><sup>534</sup><sup>535</sup><sup>536</sup><sup>537</sup><sup>538</sup><sup>539</sup><sup>540</sup><sup>541</sup><sup>542</sup><sup>543</sup><sup>544</sup><sup>545</sup><sup>546</sup><sup>547</sup><sup>548</sup><sup>549</sup><sup>550</sup><sup>551</sup><sup>552</sup><sup>553</sup><sup>554</sup><sup>555</sup><sup>556</sup><sup>557</sup><sup>558</sup><sup>559</sup><sup>550</sup><sup>551</sup><sup>552</sup><sup>553</sup><sup>554</sup><sup>555</sup><sup>556</sup><sup>557</sup><sup>558</sup><sup>559</sup><sup>560</sup><sup>561</sup><sup>562</sup><sup>563</sup><sup>564</sup><sup>565</sup><sup>566</sup><sup>567</sup><sup>568</sup><sup>569</sup><sup>560</sup><sup>561</sup><sup>562</sup><sup>563</sup><sup>564</sup><sup>565</sup><sup>566</sup><sup>567</sup><sup>568</sup><sup>569</sup><sup>570</sup><sup>571</sup><sup>572</sup><sup>573</sup><sup>574</sup><sup>575</sup><sup>576</sup><sup>577</sup><sup>578</sup><sup>579</sup><sup>570</sup><sup>571</sup><sup>572</sup><sup>573</sup><sup>574</sup><sup>575</sup><sup>576</sup><sup>577</sup><sup>578</sup><sup>579</sup><sup>580</sup><sup>581</sup><sup>582</sup><sup>583</sup><sup>584</sup><sup>585</sup><sup>586</sup><sup>587</sup><sup>588</sup><sup>589</sup><sup>580</sup><sup>581</sup><sup>582</sup><sup>583</sup><sup>584</sup><sup>585</sup><sup>586</sup><sup>587</sup><sup>588</sup><sup>589</sup><sup>590</sup><sup>591</sup><sup>592</sup><sup>593</sup><sup>594</sup><sup>595</sup><sup>596</sup><sup>597</sup><sup>598</sup><sup>599</sup><sup>590</sup><sup>591</sup><sup>592</sup><sup>593</sup><sup>594</sup><sup>595</sup><sup>596</sup><sup>597</sup><sup>598</sup><sup>599</sup><sup>600</sup><sup>601</sup><sup>602</sup><sup>603</sup><sup>604</sup><sup>605</sup><sup>606</sup><sup>607</sup><sup>608</sup><sup>609</sup><sup>600</sup><sup>601</sup><sup>602</sup><sup>603</sup><sup>604</sup><sup>605</sup><sup>606</sup><sup>607</sup><sup>608</sup><sup>609</sup><sup>610</sup><sup>611</sup><sup>612</sup><sup>613</sup><sup>614</sup><sup>615</sup><sup>616</sup><sup>617</sup><sup>618</sup><sup>619</sup><sup>610</sup><sup>611</sup><sup>612</sup><sup>613</sup><sup>614</sup><sup>615</sup><sup>616</sup><sup>617</sup><sup>618</sup><sup>619</sup><sup>620</sup><sup>621</sup><sup>622</sup><sup>623</sup><sup>624</sup><sup>625</sup><sup>626</sup><sup>627</sup><sup>628</sup><sup>629</sup><sup>620</sup><sup>621</sup><sup>622</sup><sup>623</sup><sup>624</sup><sup>625</sup><sup>626</sup><sup>627</sup><sup>628</sup><sup>629</sup><sup>630</sup><sup>631</sup><sup>632</sup><sup>633</sup><sup>634</sup><sup>635</sup><sup>636</sup><sup>637</sup><sup>638</sup><sup>639</sup><sup>630</sup><sup>631</sup><sup>632</sup><sup>633</sup><sup>634</sup><sup>635</sup><sup>636</sup><sup>637</sup><sup>638</sup><sup>639</sup><sup>640</sup><sup>641</sup><sup>642</sup><sup>643</sup><sup>644</sup><sup>645</sup><sup>646</sup><sup>647</sup><sup>648</sup><sup>649</sup><sup>640</sup><sup>641</sup><sup>642</sup><sup>643</sup><sup>644</sup><sup>645</sup><sup>646</sup><sup>647</sup><sup>648</sup><sup>649</sup><sup>650</sup><sup>651</sup><sup>652</sup><sup>653</sup><sup>654</sup><sup>655</sup><sup>656</sup><sup>657</sup><sup>658</sup><sup>659</sup><sup>650</sup><sup>651</sup><sup>652</sup><sup>653</sup><sup>654</sup><sup>655</sup><sup>656</sup><sup>657</sup><sup>658</sup><sup>659</sup><sup>660</sup><sup>661</sup><sup>662</sup><sup>663</sup><sup>664</sup><sup>665</sup><sup>666</sup><sup>667</sup><sup>668</sup><sup>669</sup><sup>660</sup><sup>661</sup><sup>662</sup><sup>663</sup><sup>664</sup><sup>665</sup><sup>666</sup><sup>667</sup><sup>668</sup><sup>669</sup><sup>670</sup><sup>671</sup><sup>672</sup><sup>673</sup><sup>674</sup><sup>675</sup><sup>676</sup><sup>677</sup><sup>678</sup><sup>679</sup><sup>670</sup><sup>671</sup><sup>672</sup><sup>673</sup><sup>674</sup><sup>675</sup><sup>676</sup><sup>677</sup><sup>678</sup><sup>679</sup><sup>680</sup><sup>681</sup><sup>682</sup><sup>683</sup><sup>684</sup><sup>685</sup><sup>686</sup><sup>687</sup><sup>688</sup><sup>689</sup><sup>680</sup><sup>681</sup><sup>682</sup><sup>683</sup><sup>684</sup><sup>685</sup><sup>686</sup><sup>687</sup><sup>688</sup><sup>689</sup><sup>690</sup><sup>691</sup><sup>692</sup><sup>693</sup><sup>694</sup><sup>695</sup><sup>696</sup><sup>697</sup><sup>698</sup><sup>699</sup><sup>690</sup><sup>691</sup><sup>692</sup><sup>693</sup><sup>694</sup><sup>695</sup><sup>696</sup><sup>697</sup><sup>698</sup><sup>699</sup><sup>700</sup><sup>701</sup><sup>702</sup><sup>703</sup><sup>704</sup><sup>705</sup><sup>706</sup><sup>707</sup><sup>708</sup><sup>709</sup><sup>700</sup><sup>701</sup><sup>702</sup><sup>703</sup><sup>704</sup><sup>705</sup><sup>706</sup><sup>707</sup><sup>708</sup><sup>709</sup><sup>710</sup><sup>711</sup><sup>712</sup><sup>713</sup><sup>714</sup><sup>715</sup><sup>716</sup><sup>717</sup><sup>718</sup><sup>719</sup><sup>710</sup><sup>711</sup><sup>712</sup><sup>713</sup><sup>714</sup><sup>715</sup><sup>716</sup><sup>717</sup><sup>718</sup><sup>719</sup><sup>720</sup><sup>721</sup><sup>722</sup><sup>723</sup><sup>724</sup><sup>725</sup><sup>726</sup><sup>727</sup><sup>728</sup><sup>729</sup><sup>720</sup><sup>721</sup><sup>722</sup><sup>723</sup><sup>724</sup><sup>725</sup><sup>726</sup><sup>727</sup><sup>728</sup><sup>729</sup><sup>730</sup><sup>731</sup><sup>732</sup><sup>733</sup><sup>734</sup><sup>735</sup><sup>736</sup><sup>737</sup><sup>738</sup><sup>739</sup><sup>730</sup><sup>731</sup><sup>732</sup><sup>733</sup><sup>734</sup><sup>735</sup><sup>736</sup><sup>737</sup><sup>738</sup><sup>739</sup><sup>740</sup><sup>741</sup><sup>742</sup><sup>743</sup><sup>744</sup><sup>745</sup><sup>746</sup><sup>747</sup><sup>748</sup><sup>749</sup><sup>740</sup><sup>741</sup><sup>742</sup><sup>743</sup><sup>744</sup><sup>745</sup><sup>746</sup><sup>747</sup><sup>748</sup><sup>749</sup><sup>750</sup><sup>751</sup><sup>752</sup><sup>753</sup><sup>754</sup><sup>755</sup><sup>756</sup><sup>757</sup><sup>758</sup><sup>759</sup><sup>750</sup><sup>751</sup><sup>752</sup><sup>753</sup><sup>754</sup><sup>755</sup><sup>756</sup><sup>757</sup><sup>758</sup><sup>759</sup><sup>760</sup><sup>761</sup><sup>762</sup><sup>763</sup><sup>764</sup><sup>765</sup><sup>766</sup><sup>767</sup><sup>768</sup><sup>769</sup><sup>760</sup><sup>761</sup><sup>762</sup><sup>763</sup><sup>764</sup><sup>765</sup><sup>766</sup><sup>767</sup><sup>768</sup><sup>769</sup><sup>770</sup><sup>771</sup><sup>772</sup><sup>773</sup><sup>774</sup><sup>775</sup><sup>776</sup><sup>777</sup><sup>778</sup><sup>779</sup><sup>770</sup><sup>771</sup><sup>772</sup><sup>773</sup><sup>774</sup><sup>775</sup><sup>776</sup><sup>777</sup><sup>778</sup><sup>779</sup><sup>780</sup><sup>781</sup><sup>782</sup><sup>783</sup><sup>784</sup><sup>785</sup><sup>786</sup><sup>787</sup><sup>788</sup><sup>789</sup><sup>780</sup><sup>781</sup><sup>782</sup><sup>783</sup><sup>784</sup><sup>785</sup><sup>786</sup><sup>787</sup><sup>788</sup><sup>789</sup><sup>790</sup><sup>791</sup><sup>792</sup><sup>793</sup><sup>794</sup><sup>795</sup><sup>796</sup><sup>797</sup><sup>798</sup><sup>799</sup><sup>790</sup><sup>791</sup><sup>792</sup><sup>793</sup><sup>794</sup><sup>795</sup><sup>796</sup><sup>797</sup><sup>798</sup><sup>799</sup><sup>800</sup><sup>801</sup><sup>802</sup><sup>803</sup><sup>804</sup><sup>805</sup><sup>806</sup><sup>807</sup><sup>808</sup><sup>809</sup><sup>800</sup><sup>801</sup><sup>802</sup><sup>803</sup><sup>804</sup><sup>805</sup><sup>806</sup><sup>807</sup><sup>808</sup><sup>809</sup><sup>810</sup><sup>811</sup><sup>812</sup><sup>813</sup><sup>814</sup><sup>815</sup><sup>816</sup><sup>817</sup><sup>818</sup><sup>819</sup><sup>810</sup><sup>811</sup><sup>812</sup><sup>813</sup><sup>814</sup><sup>815</sup><sup>816</sup><sup>817</sup><sup>818</sup><sup>819</sup><sup>820</sup><sup>821</sup><sup>822</sup><sup>823</sup><sup>824</sup><sup>825</sup><sup>826</sup><sup>827</sup><sup>828</sup><sup>829</sup><sup>820</sup><sup>821</sup><sup>822</sup><sup>823</sup><sup>824</sup><sup>825</sup><sup>826</sup><sup>827</sup><sup>828</sup><sup>829</sup><sup>830</sup><sup>831</sup><sup>832</sup><sup>833</sup><sup>834</sup><sup>835</sup><sup>836</sup><sup>837</sup><sup>838</sup><sup>839</sup><sup>830</sup><sup>831</sup><sup>832</sup><sup>833</sup><sup>834</sup><sup>835</sup><sup>836</sup><sup>837</sup><sup>838</sup><sup>839</sup><sup>840</sup><sup>841</sup><sup>842</sup><sup>843</sup><sup>844</sup><sup>845</sup><sup>846</sup><sup>847</sup><sup>848</sup><sup>849</sup><sup>840</sup><sup>841</sup><sup>842</sup><sup>843</sup><sup>844</sup><sup>845</sup><sup>846</sup><sup>847</sup><sup>848</sup><sup>849</sup><sup>850</sup><sup>851</sup><sup>852</sup><sup>853</sup><sup>854</sup><sup>855</sup><sup>856</sup><sup>857</sup><sup>858</sup><sup>859</sup><sup>850</sup><sup>851</sup><sup>852</sup><sup>853</sup><sup>854</sup><sup>855</sup><sup>856</sup><sup>857</sup><sup>858</sup><sup>859</sup><sup>860</sup><sup>861</sup><sup>862</sup><sup>863</sup><sup>864</sup><sup>865</sup><sup>866</sup><sup>867</sup><sup>868</sup><sup>869</sup><sup>860</sup><sup>861</sup><sup>862</sup><sup>863</sup><sup>864</sup><sup>865</sup><sup>866</sup><sup>867</sup><sup>868</sup><sup>869</sup><sup>870</sup><sup>871</sup><sup>872</sup><sup>873</sup><sup>874</sup><sup>875</sup><sup>876</sup><sup>877</sup><sup>878</sup><sup>879</sup><sup>870</sup><sup>871</sup><sup>872</sup><sup>873</sup><sup>874</sup><sup>875</sup><sup>876</sup><sup>877</sup><sup>878</sup><sup>879</sup><sup>880</sup><sup>881</sup><sup>882</sup><sup>883</sup><sup>884</sup><sup>885</sup><sup>886</sup><sup>887</sup><sup>888</sup><sup>889</sup><sup>880</sup><sup>881</sup><sup>882</sup><sup>883</sup><sup>884</sup><sup>885</sup><sup>886</sup><sup>887</sup><sup>888</sup><sup>889</sup><sup>890</sup><sup>891</sup><sup>892</sup><sup>893</sup><sup>894</sup><sup>895</sup><sup>896</sup><sup>897</sup><sup>898</sup><sup>899</sup><sup>890</sup><sup>891</sup><sup>892</sup><sup>893</sup><sup>894</sup><sup>895</sup><sup>896</sup><sup>897</sup><sup>898</sup><sup>899</sup><sup>900</sup><sup>901</sup><sup>902</sup><sup>903</sup><sup>904</sup><sup>905</sup><sup>906</sup><sup>907</sup><sup>908</sup><sup>909</sup><sup>900</sup><sup>901</sup><sup>902</sup><sup>903</sup><sup>904</sup><sup>905</sup><sup>906</sup><sup>907</sup><sup>908</sup><sup>909</sup><sup>910</sup><sup>911</sup><sup>912</sup><sup>913</sup><sup>914</sup><sup>915</sup><sup>916</sup><sup>917</sup><sup>918</sup><sup>919</sup><sup>910</sup><sup>911</sup><sup>912</sup><sup>913</sup><sup>914</sup><sup>915</sup><sup>916</sup><sup>917</sup><sup>918</sup><sup>919</sup><sup>920</sup><sup>921</sup><sup>922</sup><sup>923</sup><sup>924</sup><sup>925</sup><sup>926</sup><sup>927</sup><sup>928</sup><sup>929</sup><sup>920</sup><sup>921</sup><sup>922</sup><sup>923</sup><sup>924</sup><sup>925</sup><sup>926</sup><sup>927</sup><sup>928</sup><sup>929</sup><sup>930</sup><sup>931</sup><sup>932</sup><sup>933</sup><sup>934</sup><sup>935</sup><sup>936</sup><sup>937</sup><sup>938</sup><sup>939</sup><sup>930</sup><sup>931</sup><sup>932</sup><sup>933</sup><sup>934</sup><sup>935</sup><sup>936</sup><sup>937</sup><sup>938</sup><sup>939</sup><sup>940</sup><sup>941</sup><sup>942</sup><sup>943</sup><sup>944</sup><sup>945</sup><sup>946</sup><sup>947</sup><sup>948</sup><sup>949</sup><sup>940</sup><sup>941</sup><sup>942</sup><sup>943</sup><sup>944</sup><sup>945</sup><sup>946</sup><sup>947</sup><sup>948</sup><sup>949</sup><sup>950</sup><sup>951</sup><sup>952</sup><sup>953</sup><sup>954</sup><sup>955</sup><sup>956</sup><sup>957</sup><sup>958</sup><sup>959</sup><sup>950</sup><sup>951</sup><sup>952</sup><sup>953</sup><sup>954</sup><sup>955</sup><sup>956</sup><sup>957</sup><sup>958</sup><sup>959</sup><sup>960</sup><sup>961</sup><sup>962</sup><sup>963</sup><sup>964</sup><sup>965</sup><sup>966</sup><sup>967</sup><sup>968</sup><sup>969</sup><sup>960</sup><sup>961</sup><sup>962</sup><sup>963</sup><sup>964</sup><sup>965</sup><sup>966</sup><sup>967</sup><sup>968</sup><sup>969</sup><sup>970</sup><sup>971</sup><sup>972</sup><sup>973</sup><sup>974</sup><sup>975</sup><sup>976</sup><sup>977</sup><sup>978</sup><sup>979</sup><sup>970</sup><sup>971</sup><sup>972</sup><sup>973</sup><sup>974</sup><sup>975</sup><sup>976</sup><sup>977</sup><sup>978</sup><sup>979</sup><sup>980</sup><sup>981</sup><sup>982</sup><sup>983</sup><sup>98</sup>

PETROVICH, Yu.A.; PODOROZHNAЯ, R.P.

Conditioned and unconditioned secretion of glycine-Cl<sup>4</sup> and  
methi-ionine-S<sup>35</sup> by salivary glands. Dokl. AN SSSR 143  
no.2:487-490 Mr '62. (MIRA 15:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut stomatologii,  
Odessa, i Odesskiy nauchno-issledovatel'skiy psichonevrologicheskiy  
institut. Predstavлено akademikom V.N.Chernigovskim.  
(SALIVARY GLANDS)  
(AMINO ACIDS)  
(REFLEXES)

PETROVICH, Yu.A.; MIKHNEVA, N.Ye.; VISHNEVSKAYA, N.B.

Secretion of bromine ( $\text{NaBr}^{82}$ ,  $\text{KBr}^{82}$ ) in conditioned and unconditioned salivation. Biul. ekspl. biol. i med. 5 no.9:69-72 S '61. (MIA 15:6)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta stomatologii (direktor A.I. Marchenko) i Odesskogo nauchno-issledovatel'skogo psichonevrologicheskogo instituta (direktor A.G. Leshchenko), Odessa. Predstavlena deystvitel'nym chlenom AMN SSSR A.V. Lebedinskym.

(BROMIDES IN THE BODY)  
(CONDITIONED RESPONSE) (SALIVA)

PODOROZHNAIA, R.P.; PETROVICH, Yu.A.

Age variations in the permeability of the parotid salivary gland to various indicators. Dokl. AN SSSR 143 no.6:1462-1465 Ap '62. (MIRA 14:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut stomatologii, g. Odessa. Predstavлено академиком L.S.Shtern. (SALIVARY GLANDS--PERMEABILITY) (RADIOACTIVE TRACERS)

PETROVICH, Yu.A.; TRIFONOVA, V.P.

Inclusion of glycine-S<sub>14</sub> and methionine-S<sub>35</sub> in bone proteins in fractures. Vop. med. khim. no.5:460-465 S-C '61. (VMA 14:16)

1. The Biochemical Laboratory of the Ukrainian Institute of Stomatology, Odessa.

(FRACTURES) (GLYCINE) (METHIONINE)  
(PROTEIN METABOLISM)

PETROVICH, Yu.A.

Comparative study of the secretion of radioactive isotopes (phosphorus, potassium and iodine) during conditioned and nonconditioned salivation. Zhur.vys. nerv. deiat. 11 no.2:295-302 Mr-Ap '61. (MIRA 14:6)

1. Psychoneurological Institute and Ukrainian Institute of Stomatology,  
Odessa.  
(RADIOISOTOPES) (CONDITIONED RESPONSE)  
(SALIVATION)

HORNICH, V. A., R. H. S., C. J. L., J. E.,

## "Investigation of some properties of the polyisoprene polymer with isopropylidene diaromatic hydrocarbon substituents."

Report presented at the 5th Int'l. Symposium on USSR,  
Moscow, 1-16 Nov. 1961.

MARCHENKO, A.I.; PETROVICH, Yu.A.

Difference in the permeability to iodine and phosphorus in the  
mucosa of the tongue and salivary glands. Dokl.AN SSSR 138 no.6:  
1470-1472 Je '61. (MIRA 14:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut stomatologii, g.  
Odessa. Predstavлено академиком. L.S.Shtern.  
(MUCOUS MEMBRANE—PERMEABILITY) (RADIOACTIVE TRACERS)

VISHNEVSKAYA, N.B.; GERASIMOV, N.I.; MALIKOVA, A.F.; PETROVICH, Yu.A.;  
SHESTERIKOVA, T.P.

Influence of insulin on glycemic curves in neuroses. Trudy Gos.  
nauch-issl. psikhonevr. inst. no.20:237-241 '59. (MIRA 14:1)

1. Nauchno-issledovatel'skiy psikhonevrologicheskiy institut,  
Odessa. (INSULIN) (NEUROSES)

KONOVENTS, V.M. [Konovets', V.M.]; PETROVICH, Yu.A. [Petrovych, Iu.O.]

Incorporation of glycine- $\text{C}^{14}$  into the protein of hard tissues of the tooth and the bone of the alveolar process of the maxilla in dystrophy.  
Ukr. biokhim. zhur. 32 no.4:537-550 '60. (MIRA 13:9)

i. Biokhimicheskaya laboratoriya Ukrainskogo nauchno-issledovatel'skogo instituta stomatologii, Odessa.  
(GUMS—DISEASES) (PROTEIN METABOLISM)

T

USSR/Human and Animal Physiology - Sense Organs.

Abs Jour : Ref Zhur Biol., No3, 1959, 13305

Author : Petrovich, Yu.A.

Inst Title : Influence of Ultraviolet Rays on Permeability of Capillaries of the Anterior Part of the Eyeball for Protein, Radioactive Calcium, and Radioactive Phosphorus

Orig Pub : Byul. eksperim. biol. i meditsiny, 1957, 44, No 3, 63-67

Abstract : By means of determining the protein content (P), P<sup>32</sup>, and Ca<sup>45</sup> in the aqueous humor (AH) of rabbits, a study was conducted on the permeability of the capillaries (PC) of the eye with UV radiation. By establishing the concentration of P in AH it was possible to judge PC, since the blood plasma of normal rabbits contained 200-300 times more P than the AH. With an.

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Abs Jour : Ref Zhur Biol., No 3, 1959, 13305

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increase in PC the content of P in the AH was sharply elevated. It was administered 1000 impulses per gram, and P<sup>32</sup> - 2000 impulses per gram. Experimental electrophthalmia of the left eye was induced by illumination of it with a quartz lamp. After 1 - 3 days conjunctivitis and blepharospasms were noted on the irradiated side. After 1 - 3 weeks the clinical manifestations of irradiation vanished. After 1 - 3 days of illumination the concentration of P in AH was many times higher on the irradiated side. After 18 - 45 days the content of P did not differ from the control (non-irradiated rabbits). In the period of maximal elevation of the concentration of P in AH on the irradiated side there was greater permeability of P<sup>32</sup> and Ca<sup>45</sup> than in the opposite eye. This indicated an increase of PC for all the tested components. At the time of the increase in PC the

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- 137 -

level of ascorbic acid in AH decreased. After 1 week this shift was adjusted. These displacements were induced by UV rays of 334 m $\mu$ , inasmuch as they did not develop with filtered rays of the indicated . An opinion is expressed about the reflex characteristic of the change and the importance of histamine in PC of the eye. -- Yu.A. Petrovich

PETROVICH, Yu.A.

Effect of ultraviolet rays on capillary penetration of protein, radiocalcium, and radiophosphorus in the anterior chamber of the eye [with summary in English]. Biul.eksp.biol. i med. 44 no.9: (MIRA 10:12) 63-67 S '57.

1. Iz Odesskogo nauchno-issledovatel'skogo psichoneurologicheskogo instituta. Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim.

(EYE, blood supply,  
capillary permeability to proteins, radiocalcium, &  
radiophosphorus, eff. of ultraviolet rays (Rus))  
(CAPILLARY PERMEABILITY, effect of radiations,  
eye, eff. of ultraviolet rays on permeability to proteins,  
radiocalcium & radiophosphorus (Rus))  
(ULTRAVIOLET RAYS, effects,  
on capillary permeability to proteins, radiocalcium &  
radiophosphorus in eye (Rus))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240610014-2"  
(PROTEINS, metabolism,  
eye, capillary permeability, eff. of ultraviolet rays  
(Rus))

PETROVIC Yu. A.  
EXCERPTA MEDICA Sec.2 Vol.11/3 Physio-biochem. Mar 59

1129. RADIOACTIVE ISOTOPES IN THE STUDY OF P AND I ELIMINATION BY  
THE SALIVARY GLANDS IN CONDITIONED AND UNCONDITIONED SE-  
CRETION (Russian text) - Petrovich Yu. A. - DOKLADY AKAD. NAUK  
SSSR 1957, 112/2 (355-358) Graphs 1 Tables 2

Twenty-five experiments with  $P^{32}$  and 17 experiments with  $I^{131}$  were performed  
in 5 dogs in which a stereotype of alimentary conditioned reflexes had been es-  
tablished. I.v. injections of 2-3 ml. of aqueous solution of  $Na_2HP^{32}O_4$  (400-2500  
imp./min. per 1 kg. of weight) or  $Nal^{131}$  (20-400 imp./min. per 1 kg.) were given  
1 hr. before the experiment and then the radioactivity of  $P^{32}$  or  $I^{131}$  in saliva  
secreted during the experiment was determined. It was found that the activity of  
 $P^{32}$  in the conditioned salivation was 2.5-7 times less than in the unconditioned  
salivation; on the contrary the activity of  $I^{131}$  in the conditioned salivation was  
1.5-3 times greater than in the unconditioned salivation. Wyrwicka - Warsaw

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"

TERENT'YEV, V.M.; STASENKO, N.N.; PETROVICH, Zh.I.

Duration of the assimilation of C<sup>14</sup>O<sub>2</sub> and of the utilization  
of assimilates by aerial parts of barley in ontogenesis.  
Biul. Inst. biol. AN BSSR no.6:135-141 '61. (MIRA 15:3.  
(PLANTS—ASSIMILATION)

TRENT'YEV, V.M.; STASENKO, N.N.; PETROVICH, Zh.I.

Duration of regeneration and transformation dynamics of hemi-celluloses in the barley stem. Biul. Inst. boil. AN BSSR  
no.5:149-156 '60.  
(HEMICELLULOSE) (BARLEY)

PETROVICH, Zh.N., inzh.

Determination of the optimal dimensions of convector fins. Izv. vys.  
ucheb. zav.: energ. 3 no.6:106-109 Je '65. (MIRA 18:7)

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy  
teplogazosnabzheniya i ventilyatsii.

L 16704-66 EPP(m)-2/EWT(l)/EWT(m)/ETC(m)-6/T-2/EWP(t) NN/DJ/JD/JG  
ACC NR: AP6003211 SOURCE CODE: UR/0382/65/000/004/0091/0098

AUTHOR: Kalinin', T. K.; Petrovicha, R. A.; Priyedniyek, E. V.

ORG: none

87

B

TITLE: Pressure and electrical losses in a liquid metal layer of the salient pole induction pumps

SOURCE: Magnitnaya gidrodinamika, no. 4, 1965, 91-98

TOPIC TAGS: induction pump, liquid metal, MHD flow, magnetic field, magnetic reluctance, pressure measurement, pump, magnetic induction

ABSTRACT: Pressure growth in salient pole pumps is computed by taking account of the phase difference between the applied magnetic field of the poles and the field of the liquid metal. This difference in phase leads also to a modified, phase dependent, coefficient of magnetic reluctance. This coefficient has transverse and longitudinal values which are different and their ratio is plotted as a function of the separation of the neighboring magnetic poles. These coefficients are plotted for several values of a parameter which is a function of the conductivity and geometric characteristics. An expression for electrical losses is also derived. The

UDC: 538.4:621.689

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cross. The more important...  
and absence of higher field harmonics. Orig. art. has: 5 figures, 22 formulas.

SUB CODE: 20,09,13/ SUBM DATE: 07Apr65/ ORIG REF: 005/ OTH REF: 000

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240610014-2"

Card 2/2 *not*

PETROVICHEV, A.

Aspects of training builders. Prof.-tekhn. obr. 14 no.1: (Minsk 10:2)  
21 Ja '57.

1. Direktor gornopravshchenskoy shkoly no.3, Estoneskaya SSR.  
(Building trades- Study and teaching)

SHATSOV, N.I., professor, redaktor; PENTROVICHESKII, N.O., inzhener, redaktor;  
KOVAL'CEVA, A.A., vedushchiy redaktor; MUKHINA, E.A., tekhnicheskii  
redaktor

[Simplification and facilitation of borehole construction; papers  
presented at a session of the Technical Council] Uproshchenie i  
oblegchenie konstruktsii skvazhin; materialy vyezdnoi sessii  
Tekhnicheskogo soveta. Moskva, Gos. nauchno-tekhn. izd-vo neft.  
i gorno-toplivnoi lit-ry, 1957. 124 p. (MLRA 10:7)

1. Russia (1923- U.S.S.R.) Ministerstvo neftyanoy promyshlennosti.  
Tekhnicheskii sovet.  
(Oil well drilling)

ACC NR. AP6031838

(N)

SOURCE CODE: UR/0129/66/000/007/0028/0033

AUTHOR: Petrovichev, N. P.; Barabanenkov, N. I.; Fomin, A. P.; Stroganov, G. B.; Gracheva, A. P.; Pozdnyakova, T. G.; Spektor, Ya. I.

ORG: none

TITLE: Utilizing the kinetic plasticity of stainless steel to reduce the warping of work parts during their heat treatment

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 7, 1966, 28-33

TOPIC TAGS: stainless steel, metal deformation, plasticity, phase transition, stress relaxation

ABSTRACT: During its phase transformations steel displays higher plasticity, and this effect may be exploited to reduce warping, particularly in intricate large-sized work parts of high-strength stainless steel (0.11-0.16% C, ≤ 1.0% Mn, 14-15.5% Cr, 4-5% Ni, 2.3-2.8% Mo, 0.06-0.1% N) whose structure, after a complete cycle of its heat treatment, consists of martensite, residual austenite and isolated carbides, and which tends to shrink 0.5% when quenched and expand 0.3% when subjected to subzero treatment. It is shown that the warping

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UDC: 620.191.38:669.15-194;669.24'26'23

ACC NR: AP6031838

of work parts made of steels of this kind can be reduced by means of: use of fastening attachments designed so that the shrinkage associated with phase transformations would proceed from thin to bulky sections of the work part, while expansion, by contrast, would proceed from bulky to thin sections; and oriented deformation designed to maximize residual deformation and hence also to maximize the degree of stress relaxation. Orig. art. has: 8 figures, 2 tables.

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 006

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"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"

PETROVICHEV, V.I.; KOKOREV, L.S.

Heat transfer to a turbulent flow of liquid metal in case of  
a sinusoidal distribution of thermal load along the pipe.  
Inzh.-fiz.zhur. no.12:20-25 D -'59. (MIRh 13:4)

1. Inzhenerno-fizicheskiy institut, i Institut teplofiziki  
Sibirskogo otdeleniya AN SSSR, Moskva.  
(Liquid metals) (Heat--Transmission)

卷之二

**PLATE I**  
MORONE. *Inhabitat*, *fishery*, *size*, *age*, *and* *other* *characteristics* *of* *the* *fish* *of* *the* *Neckar* *river* *at* *Freiburg* *(Schwarzwald)*.  
N.F. 21. *Mitteilungen* *aus* *verschiedenen* *Wissenschaften*.  
Sponerartie *Archiv* *Reger* *Periodical* *of* *various* *Sciences*.

EDWARD M. STEPHEN, Director of Public Relations  
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Chairman, Department of Sociology  
and Anthropology, Temple University  
and Chairman, Department of Sociology  
and Anthropology, Temple University  
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ПУСКОВЫЙ, В. И. and ЧЕРНЫЙ, Л. С.

"New non-stationary method of measuring the heat-exchange coefficient."

Report presented at the 1st All-Union Conference on Heat- and Mass-Transfer,  
Minsk, BSSR, 5-9 June 1981

Petrovichev, V. I.; Kokarev, I. S.

"New Transient Method of Heat Transfer Coefficient Measurement"

Report presented at the Conference on Heat Transfer.  
Minsk, USSR, 5-10 June 61

KOKOREV, L.S. (Moskva); PETROVICHEV, V.I. (Moskva)

Measuring the heat-transfer coefficient under nonstationary  
conditions. PMTF no.1:121-124 Ja - F '61. (MIRA 14:6)  
(Heat--Transmission)

PETROVICHEV, V.I. (Moskva)

Local heat transfer to mercury in an annular channel with  
sinusoidal heat load distribution. PMTF no.4:114-116 J1-Ag  
'62. (Heat-Transmission) (Hydrodynamics) (MIRA 16:1)

ACC NR: AIP-2768

REF ID: A6410513R001240610014-2

INVENTOR: Akmetzyanov, K. G.; Petrichchen, V. I.; Tukarev, P. P.

GRANT: none /

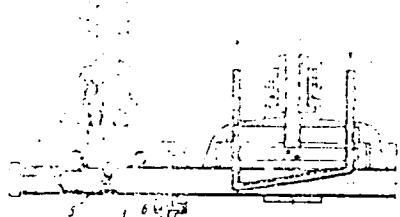
TITLE: A waveguide device for concentrating an SHF electric field in a piezoelectric sample. Class 21, No. 184298 [announced by the Moscow Engineering Physics Institute (Moskovskiy inzhenerno-fizicheskiy institut)]

SOURCE: Izobret prom obraz tsv zh, no. 15, 1986, 43

TOPIC TAGS: rectangular waveguide, coaxial waveguide, piezoelectric crystal

ABSTRACT: This Author certificate presents a waveguide device for concentrating an SHF electric field in a piezoelectric sample, to achieve a strong field within the

Figure 1. Waveguide device



1 - Slanted rectangular waveguide; 2 - coaxial stub; 3 - flat capacitor; 4 - central conductor of the coaxial stub; 5 - spark gap; 6 - ceramic rod.

Card 1/2

UDC: 621.372.855.4: 621.372.88

: 47.5 - 6

ACC NR: AP6029880

sample, a coaxial stub (see Fig. 1), connected to the broad side of a rectangular waveguide, has a broken center conductor that forms a spark gap within the waveguide; the broken ends of the center conductor are joined together with a ceramic rod. A piezoelectric sample is placed between a flat capacitor formed by the center conductor and the broad side of the waveguide. Orig. art. has: 1 figure. [IV]

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ACC NR: AP6029784

from the input to the tube where the thermocouple is fastened,  $\theta_f$  is the temperature of the fluid,  $\Delta\theta_w$  is the temperature drop in the wall at the point where the thermocouple is fastened and  $Pe$  is the Péclet number. Experiments are conducted for determining the coefficient of heat exchange to mercury with continuous heating or cooling of the fluid at the input in an experimental low-carbon steel cylinder 450 mm long with an inside diameter of 8.0 mm and an outside diameter of 60 mm. The wall temperature was measured by thermocouples placed 225 and 405 mm from the input. The results agree satisfactorily with the formula given by Subbotin (V. I. Subbotin et al., *Atomnaya energiya*, 13, No 4, 1962):  $Nu=5+0.025 Pe^{0.8}$ . Analysis indicates that the theoretical relationships derived for quasistationary conditions may be used for the more general case of continuous heating or cooling of the heat-transfer agent during flow in a tube. Orig. art. has: 2 figures, 6 formulas.

SUB CODE: 20/ SUBM DATE: 21Apr65/ ORIG REF: 002

Liquid Metal /8*ms*  
Card 2/2

PETROVICHEV, V. V.

USSR/Fuel  
Coal  
Peat

Jul 49

"New Literature on Fuel Economy," 1 p

"Za Ekonomiyu Topliva" No 7

Includes I. D. Belokopytov's book, "Technical Qualities of Peat Fuel and Their Determination," V.V. Petrovichev's book, "Industrial Furnaces Using Coal Dust," and A. K. Slavyanskiy's article, "The Problem of Utilizing Wood as Fuel."

PA 54/49T63

PETROVICHEV, V.V.

New walking-beam heating furnace. Kuz.-shtam. proizv. 2 no.8:38-  
40 Ag '60. (MIRA 14:2)  
(Furnaces, Heating)

PETROVICHEVA, A.I.

Irrigation conditions on the "Vasil'evskii" State Farm.  
Uch. zap. Biol.-pochv. fak. Kir. un. no.7:83-90 '58.

(MIRA 15:10)

(Kirghizistan—Irrigation)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"

POMORTSEV, G.N. YEMEL'YANOV, B.M., PETROVICHEVA, O.D., and DEDYURIN, M.A.

"Distribution of toxoplasmosis in dogs..."  
Veterinariya, vol. 39, no. 3, March 1962 pp. 58

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2

TM IN, ROME, 1970, VARIOUS SOURCES, 1970, 1971

SECRET SOURCE, ROMANIAN COMMUNIST PARTY, SECRET  
POLITICAL INFORMATION DIVISION, ROMANIA, 1970,  
1971, 1972, SECRET, SECRET, SECRET, SECRET, SECRET, SECRET,

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610014-2"